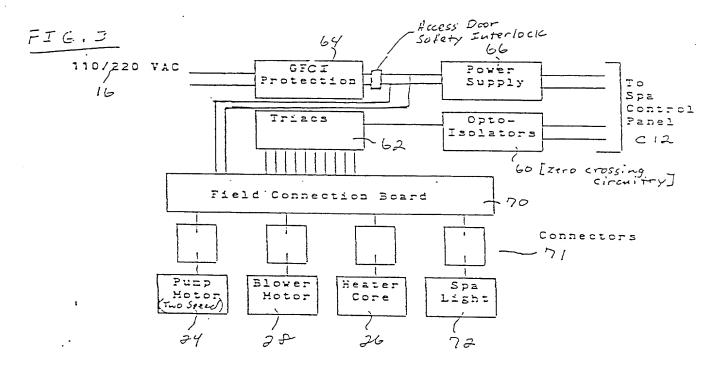
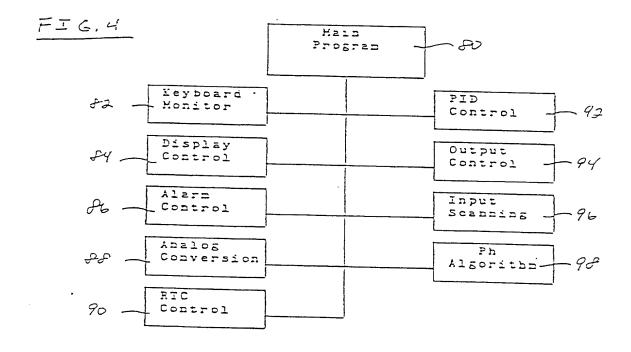
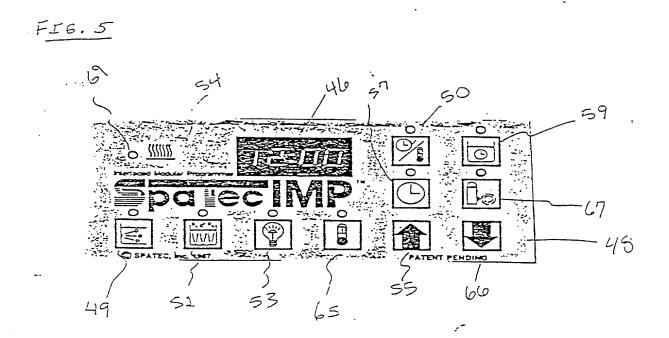


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Overall flow or control : installation : -/02 --- interrupts enabled ...----Timer -104 POWERTS LI INTERPUST 1 5VFT-55 17 : 5011 : ! בחשרמסאוח ! : בחטטרב : : return ミナシロ

FIG.7

Temp = Desired temperature of Spa water

Temp, = Temperature at First Sensor (S,)

Tempa = Temperature at Second Sensor (52)

Tamps = Temp, - Tempa

Di = Limit of acceptable temperature difference (plusor minus).

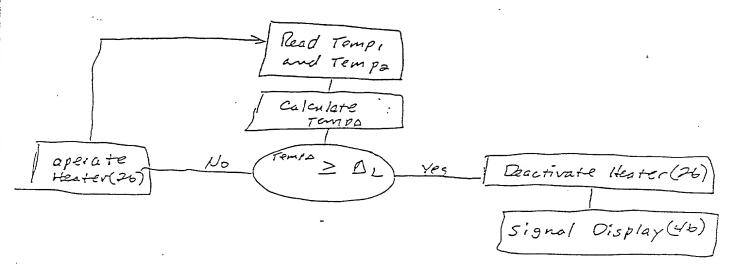
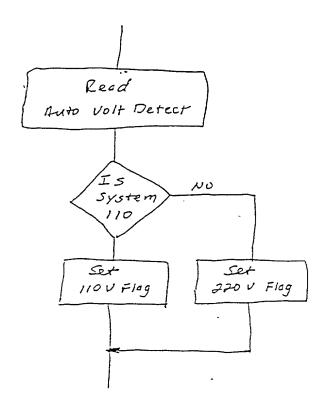


FIG. 8



FI6.9 Rate = Rate of Heating Rate at Heating (average) Temp = asired temperature of Spa water Temps = Initial temperature of spa water Tempo= Temp - Temp I Time I = Time (initial) Time (final) Time = Time = Time = = . Times = Read TempI Read Time Activate Heater (26) Continue Temp = No ·Calculate Calculate RateAu Store Rate

FI6 10

Temps = Initial temperature of Spa water

Temps = Final remperature (desire) of Spa water

Temps = Temps - Temps

Rate = Rate of Hearing

Rater = Rate of Hearing (average)

Time s = Initial time

Time s = Final time

Time s = Time f - Time s

